Harsha Vardhan

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Summary

Dedicated and results-driven professional holding a B.Tech degree. Transitioning seamlessly into the dynamic realm of software development, I leveraged my analytical mindset. I contributed to the successful execution of software projects, demonstrating adaptability and a passion for continuous learning. Seeking to further apply my expertise and contribute value to innovative software initiatives.

Technical Skills

Programming Languages	Python 3.x, HTML, C, CSS, JS
Operating systems	Linux, MacOS, Windows 7+
Cloud services	AWS EC2
IDEs	VS code, Anaconda
Networking protocols	SMPT, HTTP/HTTPS
Libraries	Django, requests, beautiful soup, pandas, numpy, math

PROFESSIONAL EXPERIENCE

DPR solutions INC   August 2022 - Present

Bench recruiter

- Managed end-to-end sourcing of qualified IT consultants for diverse projects.
- Cultivated and maintained strong relationships with clients, including staffing companies and consulting firms.
- Analyzed job requirements to effectively match consultants with technical and skill set needs.
- Conducted comprehensive screenings and interviews to assess consultant skills, experience, and cultural fit.
- Facilitated the resume submission process, ensuring timely feedback and negotiation of placement deals.
- Provided ongoing support to consultants throughout the hiring process, including interview preparation, offer negotiation, and onboarding assistance.
- Stayed current with industry trends and market demands to align consultant bench accordingly.
- Ensured accurate and timely fulfillment of documentation, contracts, and compliance requirements for consultants and clients.
- Maintained detailed records of consultant pipelines, placements, and client interactions for business analysis.
- Actively participated in industry events, conferences, and networking groups to expand professional network and generate new business opportunities.
- Proactively sought feedback from clients and consultants to enhance the recruitment process and optimize client

satisfaction.

Projects

Web Development Project: Django E-Commerce Site https://github.com/Harsha-vrdn/Hasgu-website

- Implemented secure user login and registration.
- Created a functional shopping cart for item management.
- Dynamically displayed apparel data from an external API and cleaned the API response as per the requirement.
- Integrated predictive search for apparel previews based on user input.
- Designed and implemented a contact us page storing inquiries in the database.

Project: Urban Dictionary Web Scraper https://github.com/Harsha-vrdn/Urban-dictionary-web-scrapping

- Developed a Python web scraper to collect word definitions from the Urban Dictionary website.
- Utilized the requests library for HTTP requests and BeautifulSoup for HTML parsing.
- Implemented functions to extract definitions from specific HTML elements.
- Employed a dynamic approach, iterating over characters and pages to retrieve a comprehensive set of word definitions.
- Incorporated a custom user-agent for enhanced web scraping efficiency.
- Incorporated AWS EC2 to run the script in cloud.
- Stored the collected definitions in a structured JSON format.
- Project resulted in the creation of a dataset for further analysis and research.

Script: Cold Email Sender https://github.com/Harsha-vrdn/Bulk-customizable-Email-sender

- Developed a Python script for sending personalized cold emails using Gmail.
- Utilized `smtplib` for email sending, `pandas` for data handling, and `EmailMessage` for constructing email messages.
- Read recipient data from an Excel sheet and dynamically extracted first names.
- Incorporated email attachments with support for various file types.
- Implemented secure email transmission using SSL.
- Enabled two-step verification and utilized a 16-character app password for Gmail authentication.
- Automated email sending process, providing a scalable solution for communication.

Computational Fluid Dynamics (CFD) Code Development
https://github.com/Harsha-vrdn/2-D-Riemann-problem-AUSM

Objective:
  Developed a compressible fluid flow simulation code using a Finite Volume Method (FVM) approach.

Key Contributions:
- Implemented a 2D grid with uniform spacing in x and y coordinates.
- Calculated cell volume, centroid, and unit normals at faces for grid generation.
- Set up initial conditions for density, pressure, temperature, velocity, and energy.
- Initialized density, momentum, and energy variables as conservative variables.
- Applied a CFL-based time-stepping scheme for temporal discretization.
- Defined boundary conditions for top, right, bottom, and left faces.
- Computed fluxes at vertical and horizontal faces using Roe's flux splitting for flux calculation.
- Calculated contributions for mass, momentum, and energy in face and cell fluxes.
- Checked convergence using a residue criterion and updated cell variables accordingly.

EDUCATION & CERTIFICATIONS

Bachelor's of Technology - Mechanical engineering (2018-2022)
Tezpur Central University
GPA - 6.98/10